



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,077	10/31/2003	Leslie Ross	BSG P65AUS	1364
20210	7590	11/13/2006	EXAMINER	
DAVIS & BUJOLD, P.L.L.C. 112 PLEASANT STREET CONCORD, NH 03301			VO, HAI	
			ART UNIT	PAPER NUMBER

1771

DATE MAILED: 11/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary	Application No.	Applicant(s)	
	10/699,077	ROSS, LESLIE	
	Examiner	Art Unit	
	Hai Vo	1771	

All participants (applicant, applicant's representative, PTO personnel):

(1) Hai Vo. (3) _____

(2) Jay Franklin. (4) _____

Date of Interview: 06 November 2006.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____

Claim(s) discussed: 16.

Identification of prior art discussed: Kaufmann et al (US 5,484,500), Heitkamp (US 4,956,217) and Effing et al (US 5,238,725).

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Hai Vo

Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Discussed a proposed amendment. It is agreed that the art rejections based on Kaufmann taken individually will be withdrawn in view of the proposed amendment. The question is raised whether the combined teachings of Kaufmann and Heitkamp and/or Effing would teach or suggest the claimed subject matter. There is no agreement on allowance during the interview. The examiner will thoroughly review and consider Applicant's arguments when the amendments are forwarded to her .

Proposed Amendment

16. (CURRENTLY AMENDED) A composite sheet material comprising:
a rigid core (34) of honeycomb cellular material having a first and a second side and an initial thickness; and the rigid core (34) being formed of a plurality of individually extruded tubes arranged adjacently and in parallel and in a hexagonal pattern to form a honeycomb structure in which each tube has a first end in contact with a first side skin and a second end in contact with a second side skin;

the first skin is formed of continuous sheet material on the first side of the rigid core and the second skin is formed of continuous sheet material on the second side of the rigid core and the first and the second skins each have an initial thickness; and

the first and the second skins (32, 36) are formed of a reinforced thermoplastic laminate thermoformable in a temperature range of 150°C to 300°C; and
the tubes are formed of polyetherimide material thermoformable in a temperature range up to 170°C; and

a panel formed of the rigid core (34) and the first and the second skins (32, 36) is uniformly compressed while heated to a temperature in a thermoformable range of 150°C to 170°C to have a thickness less than a sum of the initial thicknesses of the rigid core (34), the first side skin (32) and the second side skin (36); whereby

the first end and the second end of each of the tubes is distorted to bridge interstices between the first ends and the second ends of each of the tubes to thereby increase the contact surface area between the tubes and the first side and second side skins.

21. (CURRENTLY AMENDED) A composite sheet material comprising:
a rigid core (12, 34) of honeycomb cellular material having an initial thickness and being formed by a plurality of individually extruded tubes arranged adjacently and in parallel and in a hexagonal pattern to form a honeycomb; and
a first skin of continuous sheet material on a first side of the rigid core (12, 34) and a second skin of continuous sheet material on a second side of the rigid core, and the first skin (14, 32) and the second skin (16, 36) each have an initial thickness;
wherein each tube has a first end in contact with a first side skin and a second end in contact with a second side skin;

the tubes are formed of polyetherimide material thermoformable in a temperature range up to 170°C;

the first and the second skins (14, 16; 32, 36) are formed of a reinforced thermoplastic laminate thermoformable in a temperature range of 150°C to 300°C; and

the first and the second skins (14, 16; 32, 36) are each attached to a corresponding side of the rigid core by a polyester base thermoplastic adhesive having a fusion temperature less than 150°C; and

a panel formed of the rigid core, the first and the second skins is uniformly compressed, while heated to a temperature in a thermoformable range of 150°C to 170°C, to have a thickness less than a sum of the initial thicknesses of the rigid core and the first and second skins so that

the first end and the second end of each of the tubes is distorted to bridge interstices between the first ends and the second ends of each of the tubes to

thereby increase the contact surface area between the tubes and the first side and second side skins.

26. (CURRENTLY AMENDED) A composite sheet material comprising:
- a rigid core (34) of honeycomb cellular material having a first side and a second side and an initial thickness and formed of a plurality of individually extruded tubes arranged adjacently and in parallel and in a hexagonal pattern to form a honeycomb with each tube extending from a first end at the first side to a second end at the second side; and
 - a first skin of continuous sheet material on the first side and a second skin of continuous sheet material on the second side of side, with the first and the second skins each having an initial thickness;
 - wherein the tubes are formed of polyetherimide material thermoformable in a temperature range of 150°C to 170°C; and
 - the first and the second skins are formed of a reinforced thermoplastic laminate thermoformable in a temperature range extending above 170°; and
 - the first end and the second end of each tube are distorted to bridge interstices between the ends of the tubes at the first skin and at the second skin by compression of the composite sheet material while in the thermoformable temperature range of the tubes to thereby provide an increased surface area between the rigid core and the first and second skins.